

# Defense Standardization Program Conference Joint Standards Board for Power Source Systems Marc D. Gietter Chairperson

Army Power Division 5 March 2008



## JSBPS<sup>2</sup>MANDATE



### The purpose of the JSB for Power Source Systems is to:

- Provide senior level visibility for standardization and interoperability initiatives.
- **Establish DoD Standards**
- Improve interoperability of forces.
- Recommend joint doctrine, tactics, techniques and procedures.
- Establish standardization of parts/components that have lowered cost, reduced inventories, shortened logistics chains and improved readiness.
- Develop joint solutions to issues that impact the Power Source Systems domain.
- Propose funding requirements for specific efforts/projects related to standardization and interoperability goals and objectives.
- Provide the interface for commercial/military integration.



# **March 2007**



EXPAND ON PAST

**SUCCESSES** 

INSTITUTE POLICY CHANGES

REDUCE NUMBER

**OF NSNs** 

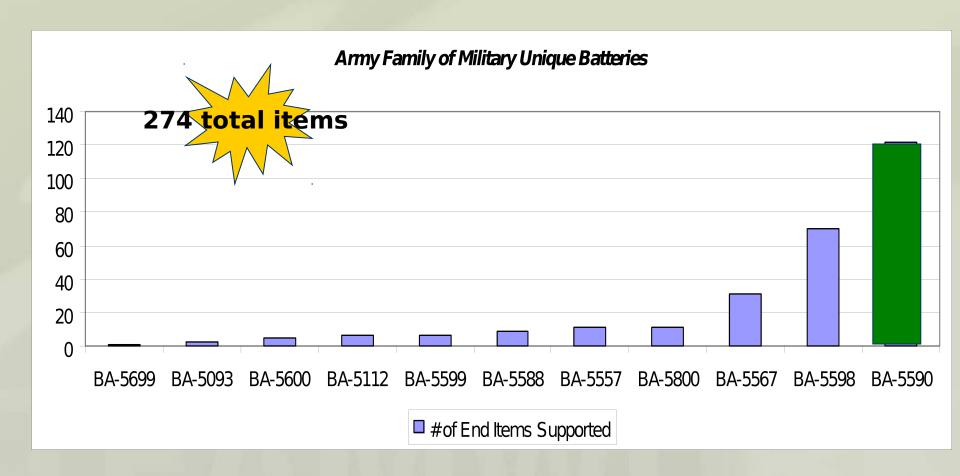
BRING SUFFICENT RESOURCES TO BEAR





# **Build on previous success...**











Alkaline Cells



**Commercial Chargers** 



Lead Acid Vehicle Batterie

**Expand on use of standard commercial technologies** 



# **MARCH 2008**







# The problems



NO ONE

IS

**GUILTY!** 





# THE ISSUES







**BASIC DATA** 













### **>INDUSTRY**

- Power source is last item to be considered in design
- It's a logistics problem
- Get paid to design new source
- Contractor part numbercontinual source of income

### >Government PM

- Not a critical parameter
- It's a logistics problem
- Get it fielded
- System performance is key
- Contractors are "always right"

### > Standardization

- Last to know
- Not in the approval loop
- Lots of other things to keep track of

ISSUE - ELIMINATE THE "CONSIPRACY OF COMPLACENCY"







### **ALLOCATION OF RESOURCES**

**Standardization Community** 

- Has the mission
- Has the funding resources (?)
- Diverse within DOD
- Lots to do

**Power Community** 

- Has the knowledge
  - Needs funding

Small/integrated



ISSUE - GETTING THE RIGHT PEOPLE INVOLVED







### **BASIC DATA**

- Technical data in FEDLOG needs to be updated
  - Data is missing
  - Incorrect
  - Out of date

Battery PSCV Data

\* 2800 NSNs

\* 11,000 lines of data

- Battery FIIG need to be updated to address current technologies
- Manage company provided data

(embellishments)
ISSUE - GETTING THE DATA CORRECTED MAJOR IMPACT ON POWER SOURCES COHERENT YIEW







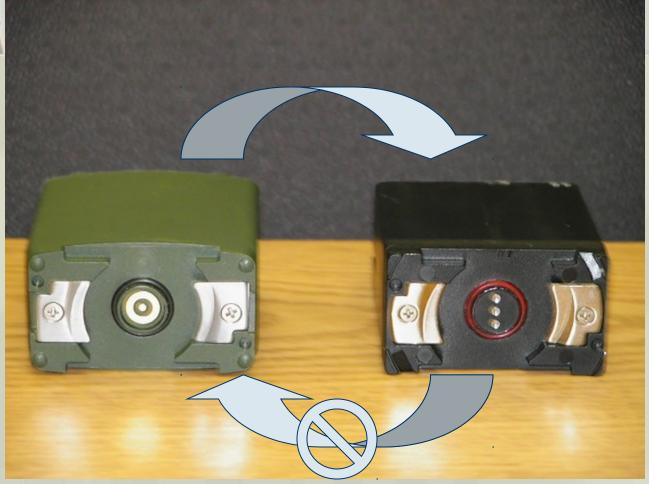
POWER SOURCES ARE NOT LIKE, "O" RINGS, WASHERS, MREs OR TENTS, ITS ALL ABOUT CONNECTORS, STUPID!!

ISSUE - IMPACTS ABILITY TO STANDARDIZE
LEGACY SYSTEMS
-IMPACTS ON INTEROPERABILITY OF
JOINT/COALITON FORCES



Same Basic Form Factor Same WarFighter Mission Same Battery Voltage





Radio Connector -Both fit the other radio Only one will power the other radio – with errolr4





Charger Connector - No Way Interchangeable



# <u>Standardization</u> <u>Run Amok?</u>



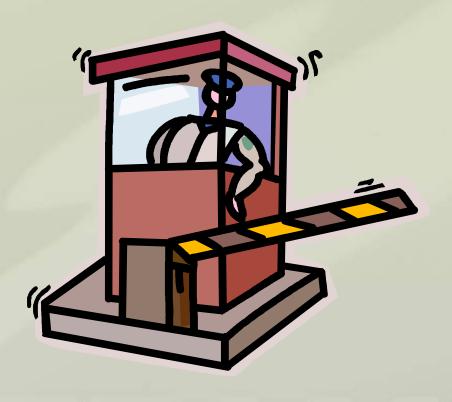
"The rifleman in each section responsible for the Lightweight Thermal Weapons Sight (LTWS) might carry 80 AA batteries each weighing 0.375 lbs. This rifleman will be carrying batteries weighing a total of 30lbs in addition to the weight of the LTWS equipment itself."

The obvious sobution imight mot be the optim



# The Gatekeeper





- in the approval chain
- Have "clout"
- Enforce existing policies
  - **Use standard items**
  - Best fit solution
  - Consider life cycle costs
- Ensure the "exception" is the exception and not the "rule"









# ALL IS NOT LOST!



# Keys to Success





- Provide resources
  - Manpower
  - Funding (internal and contract)
- Get Coherent View operational
  - identify legacy power sources for elimination/updating to new technologies
  - Identify potential solutions for new weapon systems
  - Identify preferred power source types
  - i Identify commercial products tested by military agencies
- Standardize on future connectors
- Develop DOD preferred batteries
- $^*$  Establish power of the "Gate Keeper"



# Other Efforts



- Development of a fuel cell specification
- Working on fuel cell output and fuel input connectors
- Soldier System connector standardization
- Update FIIG
- Update FLIS data (funding permitting)
- Work with NDIA Power Forum
- Establish JSBPS<sup>2</sup> Steering Committee (all are invited)





- Support for JSB Power Sources efforts
- Help identify key resources to assist the effort
- Points of contact are:

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